

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 6, 2004, 19:23:00 ; Search time 62.6562 Seconds
(without alignments)
28.627 Million cell updates/sec

Title: US-10-618-644-1

Perfect score: 26

Sequence: 1 YVVF 5

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 2002273

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A Geneseq_23Sep04.*

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4: geneseqp2001s.*

5: geneseqp2002s.*

6: geneseqp2003as.*

7: geneseqp2003bs.*

8: geneseqp2004s.*

Pred.. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	26	100.0	5	5 ABB81803	Abb81803 Soybean a
2	26	100.0	92	3 AAG13774	Aag13774 Arabidops
3	26	100.0	106	3 AAG13773	Aag13773 Arabidops
4	26	100.0	132	3 AAG24918	Aag24918 Arabidops
5	26	100.0	132	3 AAG29385	Aag29385 Arabidops
6	26	100.0	146	3 AAG24917	Aag24917 Arabidops
7	26	100.0	146	3 AAG29384	Aag29384 Arabidops
8	26	100.0	175	3 AAG24916	Aag24916 Arabidops
9	26	100.0	205	4 ADM13793	Adm13793 Protein e
10	26	100.0	226	5 ABP06325	Abp06325 Human ORF
11	26	100.0	242	7 ADM25743	Adm25743 Hyperther
12	26	100.0	244	6 ABP60069	Abp60069 B3GALT po
13	26	100.0	269	7 ADH44940	Adh44940 Human TCH
14	26	100.0	309	4 ADM20048	Adm20048 Protein e
15	26	100.0	313	3 AAG36332	Aag36332 Arabidops
16	26	100.0	329	5 ABP38044	Abp38044 Staphyloc
17	26	100.0	341	3 AAG36331	Aag36331 Arabidops
18	26	100.0	346	3 AAG36330	Aag36330 Arabidops
19	26	100.0	346	7 ADM25629	Adm25629 Hyperther
20	26	100.0	380	5 AAE26348	Aae26348 Human GLY
21	26	100.0	380	7 ADC26211	Adc26211 Human NOV
22	26	100.0	388	4 RAM41205	Ram41205 Human pol
23	26	100.0	391	5 AAU81226	Aau81226 Human lun
24	26	100.0	391	8 ADL06559	Adl06559 Human tum
25	26	100.0	416	6 ABO01333	Ab001333 Human pro

26	26	100.0	416	7 ADH44925	Adh44925 Human TCH
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28	26	100.0	417	3 AAG31493	Aag31493 Arabidops
29	26	100.0	446	3 AAB56976	Aab56976 Human pro
30	26	100.0	448	4 ADM19753	Adm19753 Protein e
31	26	100.0	450	3 AAG31492	Aag31492 Arabidops
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33	26	100.0	452	4 AAB19935	Aab19935 Arabidops
34	26	100.0	452	6 ABU08792	Abu08792 Thale cre
35	26	100.0	463	4 AAM39419	Aam39419 Human pol
36	26	100.0	468	4 AAG81887	Aag81887 S. epider
37	26	100.0	468	4 AAG82262	S. epider
38	26	100.0	496	5 ABP38858	Abp38858 Staphyloc
39	26	100.0	516	1 AAP61362	Aap61362 Soybean g
40	26	100.0	516	7 ADH89251	Adh89251 G. max gl
41	26	100.0	516	8 ADG43986	Adg43986 G. max gl
42	26	100.0	517	5 ABG71267	Abg71267 Glycine m
43	26	100.0	517	7 ADL90189	Adl90189 Soybean g
44	26	100.0	701	8 ADM48116	Adm48116 Polypepti
45	26	100.0	3076	8 ADQ26433	Adq26433 Mycobacte

ALIGNMENTS

RESULT 1

ABB81803
ID ABB81803 standard; peptide; 5 AA.

XX AC ABB81803;

XX DT 23-SEP-2002 (first entry)

XX DE Soybean angiotensin converting enzyme inhibitory peptide #1.

XX KW Soybean; angiotensin converting enzyme inhibitor; hypertension;

XX KW hypotensive; taste.

XX OS Glycine max.

XX PN WO200255546-A1.

XX PD 18-JUL-2002.

XX PF 15-JAN-2002; 2002WO-JP000194.

XX PR 16-JAN-2001; 2001JP-00007400.

XX PR 04-OCT-2001; 2001JP-00308974.

XX (AJIN) AJINOMOTO CO INC.

XX PI Kodera T, Nio N;

XX DR WPI; 2002-520117/55.

XX PT Peptides, useful as hypotensive agents or in health foods.

XX PS Claim 1; Page 19; 43pp; Japanese.

XX The invention relates to a novel set of peptides and their salts. The peptides of the invention have hypotensive activity. The peptides are used as hypotensive agents or in health foods, and have favourable taste. The present sequence represents a peptide of the invention, having angiotensin converting enzyme inhibitory activity

XX SQ Sequence 5 AA;

Query Match 100.0%; Score 26; DB 5; Length 5;

Best Local Similarity 100.0%; Pred. No. 1.7e+06;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YVVF 5

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Db 1 YVVEK 5

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AC AAG13774;
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DT 17-OCT-2000 (first entry)
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DE Arabidopsis thaliana protein fragment SEQ ID NO: 13391.
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
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PN EP1033405-A2.
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PD 06-SEP-2000.
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Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 22 YWFEK 26

RESULT 3
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ID AAG13773 standard; protein; 106 AA.
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AC AAG13773;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 13390.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
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PN EP1033405-A2.
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DT 17-OCT-2000 (first entry)
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KW hybridisation assay; genetic mapping; gene expression control; promoter;

KW termination sequence.

XX Arabidopsis thaliana.

XX EP1033405-A2.

XX PD 06-SEP-2000.

XX PF 25-FEB-2000; 2000EP-00301439.

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Best Local Similarity 100.0%; Pred.No. 3.1e+02; Mismatches 0; Gaps 0;
Matches 5; Conservative 0; Indels 0;

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XX AAG24917;

XX 17-OCT-2000 (first entry)

XX Arabidopsis thaliana protein fragment SEQ ID NO: 28773.

XX Protein identification; signal transduction pathway; metabolic pathway;
XX hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.

XX Arabidopsis thaliana.

XX EP1033405-A2.

XX 06-SEP-2000.

XX 25-FEB-2000; 2000EP-00301439.

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KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
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XX Arabidopsis thaliana.
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KW hybridisation assay; genetic mapping; gene expression control; promoter;	
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Query Match 100.0%; Score 26; DB 3; Length 175;
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Db 65 YVVF 69

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AC ADM19793;
XX
DT 20-MAY-2004 (first entry)
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KW immunosuppressive; antiarthritic; antirheumatic; antiproliferative;
KW cytostatic; cardiant; vasotropic; cerebroprotective; nootropic;
KW neuroprotective; antibacterial; virucide; fungicide; ophthalmological;
KW gene therapy; channel/transporter protein; rheumatoid arthritis;
KW neoplasm; cardiac arrest; cerebrovascular disorder; cerebral ischemia;
KW angiogenesis; nervous system disorder; Alzheimer's disease;
KW ocular disorder; corneal infection; wound healing;
KW epithelial cell proliferation; skin aging; sunburn; transplantation;
KW chemotaxis; food additive.
XX
OS Homo sapiens.
XX
PN WO200154472-A2.
XX
PD 02-AUG-2001.
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PF 17-JAN-2001; 2001WO-US0001307.
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PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
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PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
PI
XX WPI; 2001-476159/51.
DR N-PSDB; ADM19314.
XX
PT Isolated nucleic acid molecule encoding a channel/transporter protein is
PT used in preventing, treating or ameliorating a medical condition.
XX
XX Claim 11; SEQ ID NO 600; 809pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule encoding a
CC channel/transporter protein or sequences at least 95% identical to a
CC these. The nucleic acids and proteins encoded by them are used to
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used
CC in diagnosing a pathological condition or susceptibility to a
CC pathological condition. The antibodies to the proteins can also be used
CC in alleviating symptoms associated with the disorders and in diagnostic
CC immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent assays
CC (ELISA). Disorders which are diagnosed or treated include autoimmune
CC diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g.
CC neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac
CC arrest, cerebrovascular disorders e.g. cerebral ischemia, angiogenesis,
CC nervous system disorders e.g. Alzheimer's disease, infections caused by
CC bacteria, viruses and fungi and ocular disorders e.g. corneal infection.

CC The polypeptides can also be used to aid wound healing and epithelial
CC cell proliferation, to prevent skin aging due to sunburn, to maintain
CC organs before transplantation, for supporting cell culture of primary
CC tissues, to regenerate tissues and in chemotaxis. The polypeptides can
CC also be used as a food additive or preservative to increase or decrease
CC storage capabilities. This sequence corresponds to a protein of the
XX invention.
XX
SQ Sequence 205 AA;
Query Match 100.0%; Score 26; DB 4; Length 205;
Best Local Similarity 100.0%; Fred. No. 5e+02; 0; Gaps 0;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 YVVF 5
Db 117 YVVF 121
|||||
RESULT 10
ABP06325
ID ABP06325 standard; protein; 226 AA.
XX
XX AC ABP06325;
XX
XX 24-JUN-2002 (first entry)
XX
XX Human ORFX protein sequence SEQ ID NO:12632.
XX
XX Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
KW hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
KW degenerative disorder; osteoarthritis; neurodegenerative disorder;
KW cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
KW hypertension; hypothyroidism; cholesterol ester storage disease;
KW immune deficiency; immune disorder; infectious disease;
KW autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
KW myasthenia gravis.
XX
XX Homo sapiens.
XX
XX WO200192523-A2.
XX
XX 06-DEC-2001.
XX
XX 29-MAY-2001; 2001WO-US010836.
XX
XX 30-MAY-2000; 2000US-0206132P.
XX 29-AUG-2000; 2000US-0228716P.
XX
XX (CURA-) CURAGEN CORP.
XX
XX Shimkets RA, Leach MD;
XX
XX WPI; 2002-106308/14.
XX N-PSDB; ABN22077.
XX
XX Novel human polypeptides and polynucleotides useful for diagnosing,
PT preventing and treating cardiovascular disease, neurodegenerative,
PT hyperproliferative disorders and autoimmune disorders.
XX
XX Disclosure; SEQ ID NO 12632; 1037pp; English.
XX
XX The present invention describes substantially purified human proteins
CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
CC in the specification). ABN15762 to ABN27252 encode the human ORFX
CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
CC treating or preventing a pathology associated with an ORFX-associated
CC disorder in humans, and in the manufacture of a medicament for treating a
CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
CC sequences can be used in gene therapy. ORFX sequences can be used in the
CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
CC osteoarthritis, neurodegenerative disorders, disorders related to organ

CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
CC storage disease, various immune deficiencies and disorders, infectious
CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
CC bone degenerative disorders, or periodontal disease, and for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues and conditions resulting from
CC systemic cytokine damage. N.B. The sequence data for this patent did not
CC form part of the printed specification, but was obtained in electronic
CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 226 AA;

Query Match 100.0%; Score 26; DB 5; Length 226;
Best Local Similarity 100.0%; Pred. No. 5.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YVVF 5
Db 168 YVVF 172

RESULT 11
ADM25743
ID ADM25743 standard; protein; 242 AA.
XX
AC ADM25743;
XX
XX 20-MAY-2004 (first entry)
XX
DE Hyperthermophile Methanopyrus kandleri protein #349.
XX
KW hyperthermophile; protein stability enhancement;
KW protein activity enhancement.
XX Methanopyrus kandleri.
OS
XX
XX WO2003076575-A2.
XX
PD 18-SEP-2003.
XX
XX 04-MAR-2003; 2003WO-US006664.
XX
PR 04-MAR-2002; 2002US-0361742P.
PR 14-MAY-2002; 2002US-0380423P.
PR 16-SEP-2002; 2002US-0410974P.
XX
XX (FIDE-) FIDELITY SYSTEMS INC.
XX (MALY/) MALYKH A.
XX
XX Slesarev AI, Pavlov A, Pavlova N, Kozyavkin S;
XX
XX WPI; 2003-748383/70.
DR N-PSDB; ADM27081.
XX
XX New isolated nucleic acids encoding any of about 1700 Methanopyrus
PT kandleri proteins, and the encoded proteins, useful as a medicaments or
PT as diagnostic agents.
XX
XX Claim 31; SEQ ID NO 349; 1023pp; English.
XX
XX The invention comprises the amino acid sequence of proteins from the
CC hyperthermophile Methanopyrus kandleri, the invention also comprises the
CC complete genome from Methanopyrus kandleri. The Methanopyrus kandleri
CC proteins of the invention are useful for enhancing the stability and/or
CC activity of other proteins. The Methanopyrus kandleri genome is useful in
CC a variety of diagnostic and analytical methods. The present amino acid
CC sequence represents a Methanopyrus kandleri protein of the invention.
XX
SQ Sequence 242 AA;

Query Match 100.0%; Score 26; DB 7; Length 242;
Best Local Similarity 100.0%; Pred. No. 6e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YVVF 5
Db 163 YVVF 167

RESULT 12
ABP60069
ID ABP60069 standard; protein; 244 AA.
XX
AC ABP60069;
XX
XX 04-APR-2003 (first entry)
XX
XX B3GALT polypeptide sequence # SEQ ID 25.
XX
XX B3GALT; beta-1,3 galactosyltransferase; p53; cancer; breast; colon;
KW kidney; lung; ovary.
XX
XX Homo sapiens.
XX
XX WO200299044-A2.
XX
PD 12-DEC-2002.
XX
XX 02-JUN-2002; 2002WO-US017356.
XX
XX 05-JUN-2001; 2001US-0296076P.
PR 10-OCT-2001; 2001US-0328605P.
PR 15-FEB-2002; 2002US-0357253P.
XX
XX (EXEL-) EXELIXIS INC.
XX
XX Friedman L, Plowman GD, Belvin M, Francis-Lang H, Li D, Funke RP;
XX
XX WPI; 2003-156849/15.
DR N-PSDB; ABZ56922.
XX
XX Identifying p53 pathway modulating agents with B3GALT genes, useful for
PT the diagnosis and treatment of disorders associated with defects in the
PT p53 pathway, such as cancer of the breast, colon, kidneys, lung and
PT ovary.
XX
XX Claim 13; Page 77-78; 82pp; English.
XX
XX The invention relates to identifying a candidate p53 pathway modulating
CC agent in humans that is referred to in the specification as B3GALT (beta-
CC 1,3 galactosyltransferase). Also disclosed is a method for diagnosing a
CC disease in a patient, by contacting a sample with a probe for B3GALT
CC expression, and comparing the results with a control, and determining
CC whether the results indicate a likelihood of disease. Methods and
CC compositions of the invention are useful for the diagnosis and treatment
CC of disorders associated with defects in the p53 pathway, such as cancer
CC of the breast, colon, kidneys, lung and ovary. The current sequence
CC represents a B3GALT polypeptide sequence of the invention
XX
SQ Sequence 244 AA;

Query Match 100.0%; Score 26; DB 6; Length 244;
Best Local Similarity 100.0%; Pred. No. 6e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YVVF 5
Db 133 YVVF 137

RESULT 13
ADH44940

ID ADH44940 standard; protein; 269 AA.
XX
AC ADH44940;
XX
DT 25-MAR-2004 (first entry)
XX
DE Human TCH174 partial protein SEQ ID NO:16.
XX
KW human; TCH174; haemostatic; nephrotropic; cerebroprotective;
KW neuroprotective; antiinflammatory; cytosolic; digestive disease;
KW blood disease; spleen disease; pancreas disease; kidney disease;
KW central nervous system; inflammatory disease; cancer;
KW sugar nucleotide transport.
XX
OS Homo sapiens.
XX
PN WO2003025178-A1.
XX
PD 27-MAR-2003.
XX
PF 13-SEP-2002; 2002WO-JP009445.
XX
PR 17-SEP-2001; 2001JP-00282013.
PR 02-OCT-2001; 2001JP-00306861.
XX
PA (TAKE) TAKEDA CHEM IND LTD.
XX
PI Nakanishi A, Uno Y, Sagiya Y;
XX
DR WPI; 2003-313355/30.
XX
PT Novel protein with sugar nucleotide transport activity and encoded DNA,
PT applicable in diagnosis of and developing drugs for e.g. digestive
PT diseases, blood diseases, and spleen diseases.
XX
PS Claim 36; SEQ ID NO 16; 113pp; Japanese.
XX
CC The invention relates to a novel protein containing an amino acid
CC sequence identical or substantially similar to that of ADH44940 with 416
CC amino acids, or its salt. A protein of the invention has haemostatic,
CC nephrotropic, cerebroprotective, neuroprotective, antiinflammatory, and
CC cytosolic activity. The protein and the DNA encoding it are applicable
CC in the diagnosis of and developing drugs for digestive diseases, blood
CC diseases, spleen diseases, pancreas diseases, kidney diseases, diseases
CC of the central nervous system, inflammatory diseases or cancer. The
CC protein has sugar nucleotide transport activity. The present sequence
CC represents a fragment of the protein of the invention.
XX
SQ Sequence 269 AA;

Query Match 100.0%; Score 26; DB 7; Length 269;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YVWFK 5
Db 60 YVWFK 64

RESULT 14
ADM2004B
ID ADM2004B standard; protein; 309 AA.
XX
AC ADM2004B;
XX
DT 20-MAY-2004 (first entry)
XX
DE Protein encoded by novel human channel/transporter gene #11 clone 2.
XX
KW immunosuppressive; antiarthritic; antirheumatic; antiproliferative;
KW cytosolic; cardiac; vasotropic; cerebroprotective; nootropic;
KW neuroprotective; antibacterial; virucide; fungicide; ophthalmological;
KW gene therapy; channel/transporter protein; rheumatoid arthritis;

KW neoplasm; cardiac arrest; cerebrovascular disorder; cerebral ischemia;
KW angiogenesis; nervous system disorder; Alzheimer's disease;
KW ocular disorder; corneal infection; wound healing;
KW epithelial cell proliferation; skin aging; sunburn; transplantation;
KW chemotaxis; food additive.
XX
OS Homo sapiens.
XX
PN WO200154472-A2.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001307.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
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PR 30-APR-1999; 99US-0131449P.
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PR 30-APR-1999; 99US-0132407P.
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PR 05-MAY-1999; 99US-0132485P.
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PR 06-MAY-1999; 99US-0132487P.
PR 07-MAY-1999; 99US-0132863P.
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PR 03-JUN-1999; 99US-0137528P.
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